

L Number	Hits	Search Text	DB	Time stamp
1	171	("560/330").CCLS.	USPAT; EPO; JPO; DERWENT	2002/06/12 10:38
2	60	("560/338").CCLS.	USPAT; EPO; JPO; DERWENT	2002/06/12 10:38
3	218	("560/347").CCLS.	USPAT; EPO; JPO; DERWENT	2002/06/12 10:38
4	744459	bromine or Br	USPAT; EPO; JPO; DERWENT	2002/06/12 10:38
6	94111	iodine	USPAT; EPO; JPO; DERWENT	2002/06/12 10:39
8	411303	halogen	USPAT; EPO; JPO; DERWENT	2002/06/12 10:39
9	22303	phosgene	USPAT; EPO; JPO; DERWENT	2002/06/12 10:39
10	785655	(bromine or Br) or iodine	USPAT; EPO; JPO; DERWENT	2002/06/12 10:39
12	11077	halogen and phosgene	USPAT; EPO; JPO; DERWENT	2002/06/12 10:39
13	18	(halogen and phosgene) and (("560/330").CCLS.)	USPAT; EPO; JPO; DERWENT	2002/06/12 10:39
5	7	(("560/347").CCLS.) and (bromine or Br)	USPAT; EPO; JPO; DERWENT	2002/06/12 10:39
7	5	(("560/347").CCLS.) and iodine	USPAT; EPO; JPO; DERWENT	2002/06/12 10:39
11	21	(("560/330").CCLS.) and ((bromine or Br) or iodine)	USPAT; EPO; JPO; DERWENT	2002/06/12 10:39
14	14	((halogen and phosgene) and (("560/330").CCLS.)) not (((("560/330").CCLS.) and ((bromine or Br) or iodine)))	USPAT; EPO; JPO; DERWENT	2002/06/12 10:39
15	2	4845283.pn.	USPAT; EPO; JPO; DERWENT	2002/06/12 11:57
16	3	4193932.pn.	USPAT; EPO; JPO; DERWENT	2002/06/12 11:02

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition
1	IS&R	L1	171	("560/330").CCLS.	USPAT ; EPO; JPO; DERWE NT	2002/06/12 10:38		
2	IS&R	L2	60	("560/338").CCLS.	USPAT ; EPO; JPO; DERWE NT	2002/06/12 10:38		
3	IS&R	L3	218	("560/347").CCLS.	USPAT ; EPO; JPO; DERWE NT	2002/06/12 10:38		
4	BRS	L4	74445 9	bromine or Br	USPAT ; EPO; JPO; DERWE NT	2002/06/12 10:38		
5	BRS	L6	94111	iodine	USPAT ; EPO; JPO; DERWE NT	2002/06/12 10:39		
6	BRS	L8	41130 3	halogen	USPAT ; EPO; JPO; DERWE NT	2002/06/12 10:39		
7	BRS	L9	22303	phosgene	USPAT ; EPO; JPO; DERWE NT	2002/06/12 10:39		
8	BRS	L10	78565 5	(bromine or Br) or iodine	USPAT ; EPO; JPO; DERWE NT	2002/06/12 10:39		
9	BRS	L12	11077	halogen and phosgene	USPAT ; EPO; JPO; DERWE NT	2002/06/12 10:39		
10	BRS	L13	18	(halogen and phosgene) and ("560/330").CCLS.)	USPAT ; EPO; JPO; DERWE NT	2002/06/12 10:39		

	Errors
1	0
2	0
3	0
4	0
5	0
6	0
7	0
8	0
9	0
10	0

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition
11	BRS	L5	7	((("560/347").CCLS.) and (bromine or Br)	USPAT; EPO; JPO; DERWE NT	2002/06/12 10:39		
12	BRS	L7	5	((("560/347").CCLS.) and iodine	USPAT; EPO; JPO; DERWE NT	2002/06/12 10:39		
13	BRS	L11	21	((("560/330").CCLS.) and ((bromine or Br) or iodine)	USPAT; EPO; JPO; DERWE NT	2002/06/12 10:39		
14	BRS	L14	14	((halogen and phosgene) and ((("560/330").CCLS.)) not (((("560/330").CCLS.) and ((bromine or Br) or iodine))	USPAT; EPO; JPO; DERWE NT	2002/06/12 10:39		
15	BRS	L15	2	4845283.pn.	USPAT; EPO; JPO; DERWE NT	2002/06/12 11:57		
16	BRS	L16	3	4193932.pn.	USPAT; EPO; JPO; DERWE NT	2002/06/12 11:02		

	Err ors
11	0
12	0
13	0
14	0
15	0
16	0

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:sssptal623paz

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2	Jan 25	BLAST(R) searching in REGISTRY available in STN on the Web
NEWS	3	Jan 29	FSTA has been reloaded and moves to weekly updates
NEWS	4	Feb 01	DKILIT now produced by FIZ Karlsruhe and has a new update frequency
NEWS	5	Feb 19	Access via Tymnet and SprintNet Eliminated Effective 3/31/02
NEWS	6	Mar 08	Gene Names now available in BIOSIS
NEWS	7	Mar 22	TOXLIT no longer available
NEWS	8	Mar 22	TRCTHERMO no longer available
NEWS	9	Mar 28	US Provisional Priorities searched with P in CA/CAPLUS and USPATFULL
NEWS	10	Mar 28	LIPINSKI/CALC added for property searching in REGISTRY
NEWS	11	Apr 02	PAPERCHEM no longer available on STN. Use PAPERCHEM2 instead.
NEWS	12	Apr 08	"Ask CAS" for self-help around the clock
NEWS	13	Apr 09	BEILSTEIN: Reload and Implementation of a New Subject Area
NEWS	14	Apr 09	ZDB will be removed from STN
NEWS	15	Apr 19	US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
NEWS	16	Apr 22	Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS	17	Apr 22	BIOSIS Gene Names now available in TOXCENTER
NEWS	18	Apr 22	Federal Research in Progress (FEDRIP) now available
NEWS	19	Jun 03	New e-mail delivery for search results now available
NEWS	20	Jun 10	MEDLINE Reload
NEWS	21	Jun 10	PCTFULL has been reloaded
NEWS EXPRESS			February 1 CURRENT WINDOWS VERSION IS V6.0d, CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP), AND CURRENT DISCOVER FILE IS DATED 05 FEBRUARY 2002
NEWS HOURS			STN Operating Hours Plus Help Desk Availability
NEWS INTER			General Internet Information
NEWS LOGIN			Welcome Banner and News Items
NEWS PHONE			Direct Dial and Telecommunication Network Access to STN
NEWS WWW			CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 09:05:07 ON 12 JUN 2002

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 09:05:21 ON 12 JUN 2002

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STRUCTURE FILE UPDATES: 10 JUN 2002 HIGHEST RN 428438-29-3

DICTIONARY FILE UPDATES: 10 JUN 2002 HIGHEST RN 428438-29-3

TSCA INFORMATION NOW CURRENT THROUGH January 7, 2002

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES
for more information. See STNote 27, Searching Properties in the CAS
Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> e phosgene/cn

E1	1	PHOSGARD XC 2000L/CN
E2	1	PHOSGEN/CN
E3	1 -->	PHOSGENE/CN
E4	1	PHOSGENE (2,5-DICHLOROPHENYL)HYDRAZONE/CN
E5	1	PHOSGENE DIMER/CN
E6	1	PHOSGENE DIPHENYL ACETAL/CN
E7	1	PHOSGENE, AZINE/CN
E8	1	PHOSGENE, AZINE WITH 1-NAPHTHYL KETONE/CN
E9	1	PHOSGENE, AZINE WITH 1-NAPHTHYL PHENYL KETONE/CN
E10	1	PHOSGENE, AZINE WITH BENZOYL CHLORIDE/CN
E11	1	PHOSGENE, AZINE WITH P-BROMOBENZOYL CHLORIDE/CN
E12	1	PHOSGENE, AZINE WITH P-CHLOROBENZOYL CHLORIDE/CN

=> e3

L1 1 PHOSGENE/CN

=> d l1

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2002 ACS

RN 75-44-5 REGISTRY

CN Carbonic dichloride (9CI) (CA INDEX NAME)

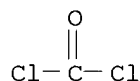
OTHER CA INDEX NAMES:

CN **Phosgene (8CI)**

OTHER NAMES:

CN Carbon dichloride oxide

CN Carbon oxychloride
 CN Carbonyl chloride
 CN Carbonyl dichloride
 CN CG
 CN Chloroformyl chloride
 CN Dichloroformaldehyde
 CN Phosgen
 FS 3D CONCORD
 MF C Cl2 O
 CI COM
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS,
 BIOSIS,
 BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS,
 CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHM, CSNB, DETHERM*, DIPPR*,
 EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*,
 HSDB*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC,
 PDLCOM*, PIRA, PROMT, RTECS*, SPECINFO, TOXCENTER, TULSA, ULIDAT,
 USPAT2, USPATFULL, VTB
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5225 REFERENCES IN FILE CA (1967 TO DATE)
 204 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 5229 REFERENCES IN FILE CAPLUS (1967 TO DATE)
 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> e bromine/cn

E1	1	BROMINDIGO R/CN
E2	1	BROMINDIONE/CN
E3	1 -->	BROMINE/CN
E4	1	BROMINE (79,81BR2)/CN
E5	1	BROMINE (79BR81BR)/CN
E6	1	BROMINE (81BR2)/CN
E7	1	BROMINE (81BR81BR)/CN
E8	1	BROMINE (BR2-)/CN
E9	1	BROMINE (BR3)/CN
E10	1	BROMINE (BR4)/CN
E11	1	BROMINE 0-40.0, RUBIDIUM 60.0-100 (ATOMIC)/CN
E12	1	BROMINE 0-7.50, CESIUM 92.5-100 (ATOMIC)/CN

=> e3

L2	1	BROMINE/CN
----	---	------------

=> 12

L3	1	BROMINE/CN
----	---	------------

=> d 12

L2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2002 ACS
RN 7726-95-6 REGISTRY
CN **Bromine (8CI, 9CI)** (CA INDEX NAME)
OTHER NAMES:
CN Bromine element
CN Bromine molecule (Br2)
CN Diatomic bromine
CN Dibromine
FS 3D CONCORD
DR 23724-81-4
MF Br2
CI COM
LC STN Files: AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA,
CANCERLIT, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX,
CHEMLIST, CHEMSAFE, CIN, CSCHM, CSNB, DDFU, DETHERM*, DIPPR*, DRUGU,
EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HSDB*,
IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC,
PDLCOM*, PIRA, PROMT, RTECS*, TOXCENTER, TULSA, ULIDAT, USPAT2,
USPATFULL, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(*Enter CHEMLIST File for up-to-date regulatory information)

Br-Br

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

21604 REFERENCES IN FILE CA (1967 TO DATE)
734 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
21629 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> e iodine/cn

E1	1	IODINATED POPPYSEED OIL/CN
E2	1	IODINATED VEGETABLE OIL/CN
E3	1 -->	IODINE/CN
E4	1	IODINE (I27I2)/CN
E5	1	IODINE (I29I2)/CN
E6	1	IODINE (I1+)/CN
E7	1	IODINE (I129I)/CN
E8	1	IODINE (I2-)/CN
E9	1	IODINE (I21+)/CN
E10	1	IODINE (I22+)/CN
E11	1	IODINE (TRISULFATE) ((I2)2(S3O10))/CN
E12	1	IODINE 1950U/CN

=> e3

L4 1 IODINE/CN

=> d 14

L4 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2002 ACS
RN 7553-56-2 REGISTRY
CN **Iodine (8CI, 9CI)** (CA INDEX NAME)

OTHER NAMES:

CN Actomar
CN Diatomic iodine
CN Diiodine
CN Eranol
CN Iodel FD
CN Iodine (I27I2)
CN Iodine colloidal
CN Iodine crystals
CN Iodine molecule (I2)
CN Iodine sublimed
CN Iosan Superdip
CN Jodosan
CN Molecular iodine
FS 3D CONCORD
DR 8012-81-5, 8012-85-9, 8031-47-8, 24503-90-0
MF I2
CI COM
LC STN Files: ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, BIOBUSINESS,

BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAPLUS, CASREACT, CBNB, CEN,
CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHM, CSNB, DDFU,
DETERM*, DIOGENES, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2,
ENCOMPPAT, ENCOMPPAT2, GMELIN*, HSDB*, IFICDB, IFIPAT, IFIADB, IPA,
MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM*, PHAR, PIRA,
PROMT, RTECS*, TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATFULL, VETU,
VTB

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

I- I

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

36914 REFERENCES IN FILE CA (1967 TO DATE)
2358 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
36944 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

21.88

22.09

FILE 'CAPLUS' ENTERED AT 09:06:52 ON 12 JUN 2002

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FILE COVERS 1907 - 12 Jun 2002 VOL 136 ISS 24
FILE LAST UPDATED: 10 Jun 2002 (20020610/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

=> l1

L5 5229 L1

=> l2

L6 21643 L2

=> l4

L7 36942 L4

=> l6 or l7

L8 53283 L6 OR L7

=> l5 and l8

L9 72 L5 AND L8

=> isocyanate

53030 ISOCYANATE

18388 ISOCYANATES

L10 60170 ISOCYANATE

(ISOCYANATE OR ISOCYANATES)

=> l9 and l10

L11 8 L9 AND L10

=> d l11

L11 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2002 ACS

AN 1999:586877 CAPLUS

DN 131:261604

TI Accidental release prevention

AU Charrington, Peter R.

CS Environmental Resources Management, Exton, PA, 19341, USA

SO Ceramic Transactions (1998), 87 (Environmental Issues and Waste Management Technologies in the Ceramic and Nuclear Industries III), 89-99
CODEN: CETREW; ISSN: 1042-1122

PB American Ceramic Society

DT Journal

LA English

=> d l11 1-8 ti

L11 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2002 ACS

TI Accidental release prevention

L11 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2002 ACS
TI The Use of Benchmark Dose Methodology with Acute Inhalation Lethality Data

L11 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2002 ACS
TI Management & design of process exhaust systems in an I/C manufacturing environment for emission minimization

L11 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2002 ACS
TI French limiting values for occupational exposure to chemicals

L11 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2002 ACS
TI Amide derivatives from haloaminotriazines and acid halides

L11 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2002 ACS
TI Air contaminants

L11 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2002 ACS
TI Performance-oriented packaging standards; changes to classification, hazard communication, packaging and handling requirements based on UN standards and agency initiative

L11 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2002 ACS
TI Air contaminants

=> l8 and l10

L12 102 L8 AND L10

=> l8(l)l10

L13 15 L8(L)L10

=> color

339480 COLOR

35414 COLORS

L14 358596 COLOR

(COLOR OR COLORS)

=> l13 and l14

L15 0 L13 AND L14

=> d l13 1-15 ti

L13 ANSWER 1 OF 15 CAPLUS COPYRIGHT 2002 ACS
TI Stereoselective synthesis of 1,3,4-trisubstituted tetrahydro-.beta.-carbolines from indoles based on selective transformations

L13 ANSWER 2 OF 15 CAPLUS COPYRIGHT 2002 ACS
TI Reaction of AgOCN with NO, NO2, ClNO2, ClNO, and BrNO: Evidence of the Formation of OCN-NO2 and OCN-NO

L13 ANSWER 3 OF 15 CAPLUS COPYRIGHT 2002 ACS
TI 3-Bromopropanoyl isocyanate as an acyclic source of the succinimidyl radical

L13 ANSWER 4 OF 15 CAPLUS COPYRIGHT 2002 ACS
TI Preparing polyoxazolidones with organoantimony iodide catalysts

L13 ANSWER 5 OF 15 CAPLUS COPYRIGHT 2002 ACS
 TI Menthane diisocyanate by addition of isocyanic acid to terpinyl
 monoisocyanates

L13 ANSWER 6 OF 15 CAPLUS COPYRIGHT 2002 ACS
 TI Determination of rotation and centrifugal distortion constants using
 quadrupole hyperfine structure: the microwave spectrum of iodine
 isocyanate, INCO

L13 ANSWER 7 OF 15 CAPLUS COPYRIGHT 2002 ACS
 TI Isocyanates and/or derivatives

L13 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2002 ACS
 TI Syntheses of methyl .alpha.- and .beta.-DL-tetronitrosides (or
 kijanosides)

L13 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2002 ACS
 TI Isocyanate composition

L13 ANSWER 10 OF 15 CAPLUS COPYRIGHT 2002 ACS
 TI Tetrahydronaphthylurea compounds

L13 ANSWER 11 OF 15 CAPLUS COPYRIGHT 2002 ACS
 TI Iodine isocyanate

L13 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2002 ACS
 TI Iodoisocyanate addition to unsaturated fatty acids and synthesis of their
 2-oxazolidones

L13 ANSWER 13 OF 15 CAPLUS COPYRIGHT 2002 ACS
 TI Stereochemistry of aziridine reactions. I. Synthesis of
 1-phenyl-7-azabicyclo[4.1.0]heptane and its reactions with
 trichloroacetic
 acid and with hydrogen chloride

L13 ANSWER 14 OF 15 CAPLUS COPYRIGHT 2002 ACS
 TI Aromatic imidoisocyanate

L13 ANSWER 15 OF 15 CAPLUS COPYRIGHT 2002 ACS
 TI Isocyanate-blocked, mercaptan-functional, organic polysulfides

=> logoff hold

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

12.71

34.80

SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 09:09:40 ON 12 JUN 2002

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:sssptal623paz

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 09:44:20 ON 12 JUN 2002
FILE 'CAPLUS' ENTERED AT 09:44:20 ON 12 JUN 2002
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	12.71	34.80

=> save temp all ltisocyanate/l
L# LIST L1-L15 HAS BEEN SAVED AS 'LTISOCYANATE/L'

=> d his

(FILE 'HOME' ENTERED AT 09:05:07 ON 12 JUN 2002)

FILE 'REGISTRY' ENTERED AT 09:05:21 ON 12 JUN 2002

E PHOSGENE/CN
L1 1 E3
E BROMINE/CN
L2 1 E3
L3 1 L2
E IODINE/CN
L4 1 E3

FILE 'CAPLUS' ENTERED AT 09:06:52 ON 12 JUN 2002

L5 5229 L1
L6 21643 L2
L7 36942 L4
L8 53283 L6 OR L7
L9 72 L5 AND L8
L10 60170 ISOCYANATE
L11 8 L9 AND L10
L12 102 L8 AND L10
L13 15 L8(L)L10
L14 358596 COLOR
L15 0 L13 AND L14
SAVE TEMP ALL LTISOCYANATE/L

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	13.50	35.59

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 09:45:15 ON 12 JUN 2002

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:sssptal623paz

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 09:56:24 ON 12 JUN 2002
FILE 'CAPLUS' ENTERED AT 09:56:24 ON 12 JUN 2002

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lo

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	13.50	35.59

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	13.50	35.59

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 09:56:42 ON 12 JUN 2002

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:sssptal623paz

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 10:45:37 ON 12 JUN 2002
FILE 'CAPLUS' ENTERED AT 10:45:37 ON 12 JUN 2002
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	13.90	35.99

=> d his

(FILE 'HOME' ENTERED AT 09:05:07 ON 12 JUN 2002)

FILE 'REGISTRY' ENTERED AT 09:05:21 ON 12 JUN 2002

E PHOSGENE/CN
L1 1 E3
E BROMINE/CN
L2 1 E3
L3 1 L2
E IODINE/CN
L4 1 E3

FILE 'CAPLUS' ENTERED AT 09:06:52 ON 12 JUN 2002

L5 5229 L1
L6 21643 L2
L7 36942 L4
L8 53283 L6 OR L7
L9 72 L5 AND L8
L10 60170 ISOCYANATE
L11 8 L9 AND L10
L12 102 L8 AND L10
L13 15 L8(L)L10
L14 358596 COLOR
L15 0 L13 AND L14
SAVE TEMP ALL LTISOCYANATE/L

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

13.90

35.99

FILE 'REGISTRY' ENTERED AT 10:45:52 ON 12 JUN 2002

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Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES
for more information. See STNote 27, Searching Properties in the CAS
Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> e diphenylmethanediamine/cn

E1 1 DIPHENYLMETHANEBISMALEIMIDEO-O,O'-DIALLYLBISPHENOL A
COPOLYM

ER/CN

E2 1 DIPHENYLMETHANEBISSTEARYLUREA/CN

E3 0 --> DIPHENYLMETHANEDIAMINE/CN

E4 1 DIPHENYLMETHANEDICARBOXYLIC ACID/CN

E5 1 DIPHENYLMETHANEDIETHYLENEUREA/CN

E6 1 DIPHENYLMETHANEDIISOCYANATE, POLYMER WITH ETHYLENE AND
PROPY

LENE OXIDES AND WITH TOLYLENE DIISOCYANATE/CN

E7 1 DIPHENYLMETHANEDIISOCYANATE-FORMALDEHYDE-MELAMINE-UREA
COPOL

YMER/CN

E8 1 DIPHENYLMETHANEDIISOCYANATE-FORMALDEHYDE-TOLYLENE
DIISOCYANA

TE-UREA COPOLYMER/CN

E9 1 DIPHENYLMETHANEDIISOCYANATE-GLYCIDOL-POLYFURIT COPOLYMER/CN

E10 1 DIPHENYLMETHANEDIISOCYANATE-HEXANETRIOL-PROPYLENE OXIDE

COPO

LYMER/CN

E11 1 DIPHENYLMETHANEDIISOCYANATE-POLY(VINYL ALCOHOL) POLYMER/CN

E12 1 DIPHENYLMETHANEDIISOCYANATE-POLYPROPYLENE GLYCOL

TRIGLYCEROL

ETHER-TDI POLYMER/CN

=> e diaminophenylmethane/cn

E1 1 DIAMINOPHENOL/CN

E2 1

DIAMINOPHENYLBENZIMIDAZOLE-DIMETHYLBENZIDINE-4-HYDROXYBENZOI
C ACID-6-HYDROXY-2-NAPHTHOIC

ACID-ISOSORBIDE-P-PHENYLENEDIAM

INE-TEREPHTHALIC ACID COPOLYMER/CN

E3 1 --> DIAMINOPHENYLMETHANE/CN

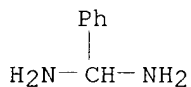
E4	1	DIAMINOPHENYLMETHANE-EPON 828-NADIC METHYL ANHYDRIDE
COPOLYM		ER/CN
E5	1	DIAMINOPHENYLPHOSPHINE OXIDE/CN
E6	1	DIAMINOPIMELATE DAP DECARBOXYLASE SEQUENCE HOMOLOG
(SINORHIZ		OBIMUM MELILOTI GENE LYSA/SMC00723)/CN
E7	1	DIAMINOPIMELATE DECARBOXYLASE/CN
E8	2	DIAMINOPIMELATE DECARBOXYLASE (AGROBACTERIUM TUMEFACIENS
STR		AIN C58 GENE LYSA)/CN
E9	1	DIAMINOPIMELATE DECARBOXYLASE (AQUIFEX AEOLICUS GENE
LYSA)/C		N
E10	1	DIAMINOPIMELATE DECARBOXYLASE (BACILLUS METHANOLICUS
STRAIN		MGA3 CLONE PDM5 GENE LYSA) (E.C. 4.1.1.20)/CN
E11	1	DIAMINOPIMELATE DECARBOXYLASE (BRUCELLA MELITENSIS STRAIN
16		M GENE BMEI0084)/CN
E12	1	DIAMINOPIMELATE DECARBOXYLASE (BUCHNERA STRAIN APS GENE
LYSA)/CN

=> e3

L16 1 DIAMINOPHENYLMETHANE/CN

=> d 116

L16 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2002 ACS
 RN 4463-43-8 REGISTRY
 CN Methanediamine, 1-phenyl- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Toluene-.alpha.,.alpha.-diamine (8CI)
 OTHER NAMES:
 CN Benzylidenediamine
 CN **Diaminophenylmethane**
 FS 3D CONCORD
 MF C7 H10 N2
 CI COM
 LC STN Files: CA, CAPLUS, CIN, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

17 REFERENCES IN FILE CA (1967 TO DATE)
 2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 17 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> logoff hold

COST IN U.S. DOLLARS

SINCE FILE
ENTRY

TOTAL
SESSION

FULL ESTIMATED COST

7.10

43.09

SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 10:48:04 ON 12 JUN 2002

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssspta1623paz

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *

SESSION RESUMED IN FILE 'REGISTRY' AT 10:50:46 ON 12 JUN 2002

FILE 'REGISTRY' ENTERED AT 10:50:46 ON 12 JUN 2002

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COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

7.10

43.09

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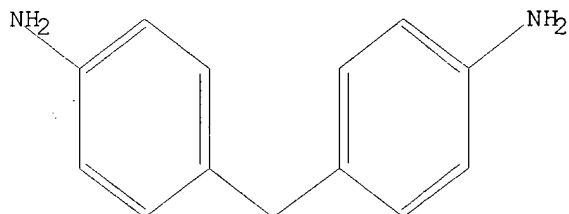
Uploading 10018636 diphenyl methane diamine.str

L17 STRUCTURE UPLOADED

=> d l17

L17 HAS NO ANSWERS

L17 STR



Structure attributes must be viewed using STN Express query preparation.

=> search l17 exact full

FULL SEARCH INITIATED 10:51:20 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 235 TO ITERATE

100.0% PROCESSED 235 ITERATIONS

11 ANSWERS

SEARCH TIME: 00.00.01

L18 11 SEA EXA FUL L17

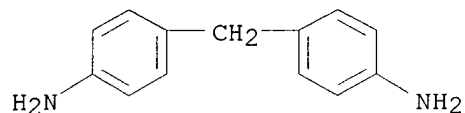
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L18 11 ANSWERS REGISTRY COPYRIGHT 2002 ACS

IN Benzenamine, 4,4'-methylenedibis- (9CI)

MF C13 H14 N2

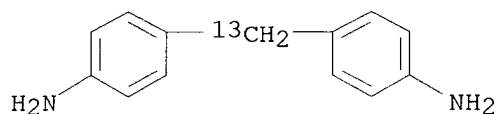
CI COM



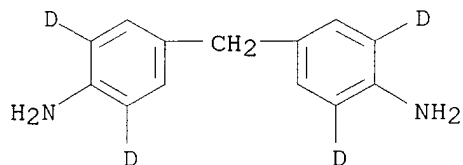
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):18

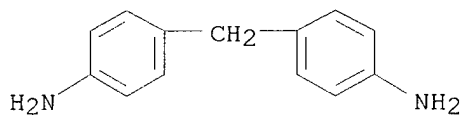
L18 11 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN Benzenamine, 4,4'-(methylene-13C)bis- (9CI)
MF C13 H14 N2
CI COM



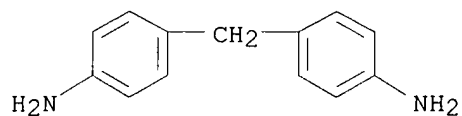
L18 11 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN Benzen-2,6-d2-amine, 4,4'-methylenebis- (9CI)
MF C13 H10 D4 N2



L18 11 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN Benzenamine, 4,4'-methylenebis[ar,ar-dichloro- (9CI)
MF C13 H10 Cl4 N2
CI IDS, COM



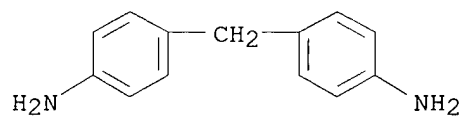
L18 11 ANSWERS REGISTRY COPYRIGHT 2002 ACS
 IN Benzenamine, 4,4'-methylenebis[ar-chloro- (9CI)
 MF C13 H12 Cl2 N2
 CI IDS, COM



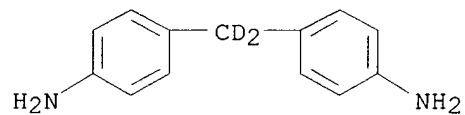
2 (D1-Cl)

L18 11 ANSWERS REGISTRY COPYRIGHT 2002 ACS
 IN Benzenamine, 4,4'-methylenebis-, homopolymer (9CI)
 MF (C13 H14 N2)x
 CI PMS, COM

CM 1

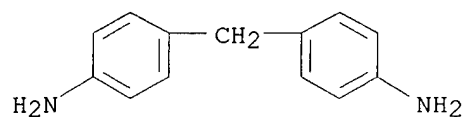


L18 11 ANSWERS REGISTRY COPYRIGHT 2002 ACS
 IN Benzenamine, 4,4'-(methylene-d2)bis- (9CI)
 MF C13 H12 D2 N2

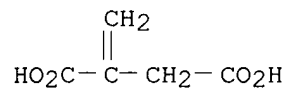


L18 11 ANSWERS REGISTRY COPYRIGHT 2002 ACS
 IN Butanoic acid, 4-[[4-[(4-aminophenyl)methyl]phenyl]amino]methylene-4-oxo- (9CI)
 MF C18 H18 N2 O3
 CI IDS

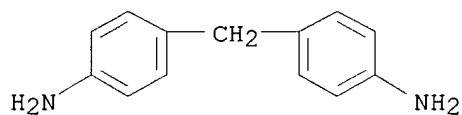
CM 1



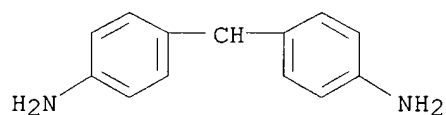
CM 2



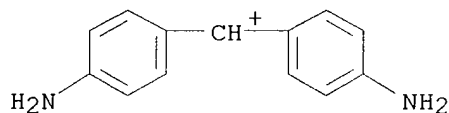
L18 11 ANSWERS REGISTRY COPYRIGHT 2002 ACS
 IN Benzenamine, 4,4'-methylenebis-, labeled with deuterium (9CI)
 MF C13 H10 D4 N2



L18 11 ANSWERS REGISTRY COPYRIGHT 2002 ACS
 IN Methyl, bis(4-aminophenyl)- (9CI)
 MF C13 H13 N2



L18 11 ANSWERS REGISTRY COPYRIGHT 2002 ACS
 IN Methylum, bis(p-aminophenyl)- (8CI)
 MF C13 H13 N2



ALL ANSWERS HAVE BEEN SCANNED

=> file caplus
 COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION

FULL ESTIMATED COST

54.86

90.85

FILE 'CAPLUS' ENTERED AT 10:51:59 ON 12 JUN 2002
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FILE COVERS 1907 - 12 Jun 2002 VOL 136 ISS 24
FILE LAST UPDATED: 10 Jun 2002 (20020610/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

=> l18

L19 3948 L18

=> d his

(FILE 'HOME' ENTERED AT 09:05:07 ON 12 JUN 2002)

FILE 'REGISTRY' ENTERED AT 09:05:21 ON 12 JUN 2002

E PHOSGENE/CN
L1 1 E3
E BROMINE/CN
L2 1 E3
L3 1 L2
E IODINE/CN
L4 1 E3

FILE 'CAPLUS' ENTERED AT 09:06:52 ON 12 JUN 2002

L5 5229 L1
L6 21643 L2
L7 36942 L4
L8 53283 L6 OR L7
L9 72 L5 AND L8
L10 60170 ISOCYANATE
L11 8 L9 AND L10
L12 102 L8 AND L10
L13 15 L8(L)L10
L14 358596 COLOR
L15 0 L13 AND L14
SAVE TEMP ALL LTISOCYANATE/L

FILE 'REGISTRY' ENTERED AT 10:45:52 ON 12 JUN 2002
E DIPHENYLMETHANEDIAMINE/CN
E DIAMINOPHENYLMETHANE/CN
L16 1 E3
L17 STRUCTURE UPLOADED
L18 11 SEARCH L17 EXACT FULL

FILE 'CAPLUS' ENTERED AT 10:51:59 ON 12 JUN 2002
L19 3948 L18

=> l19 and l5
L20 45 L19 AND L5

=> l10 and l20
L21 31 L10 AND L20

=> d l21 21-31 ti

L21 ANSWER 21 OF 31 CAPLUS COPYRIGHT 2002 ACS
TI **Isocyanate** compositions

L21 ANSWER 22 OF 31 CAPLUS COPYRIGHT 2002 ACS
TI N-Aryltetramethylguanidines, living catalysts for polyurethane foams

L21 ANSWER 23 OF 31 CAPLUS COPYRIGHT 2002 ACS
TI Heats of the phosgenation of aniline, 2,4-tolylenediamine, and 4,4'-diphenylmethanedi-amine

L21 ANSWER 24 OF 31 CAPLUS COPYRIGHT 2002 ACS
TI Polyhalogenated polyisocyanates

L21 ANSWER 25 OF 31 CAPLUS COPYRIGHT 2002 ACS
TI 4,4'-Methylenebis(cyclohexylisocyanate)

L21 ANSWER 26 OF 31 CAPLUS COPYRIGHT 2002 ACS
TI N-Trimethylsilyl derivatives of some industrial diamines and their phosgenation

L21 ANSWER 27 OF 31 CAPLUS COPYRIGHT 2002 ACS
TI Continuous production of organic **isocyanates**

L21 ANSWER 28 OF 31 CAPLUS COPYRIGHT 2002 ACS
TI Organic polyisocyanate components

L21 ANSWER 29 OF 31 CAPLUS COPYRIGHT 2002 ACS
TI Organic **isocyanates**

L21 ANSWER 30 OF 31 CAPLUS COPYRIGHT 2002 ACS
TI **Isocyanates**

L21 ANSWER 31 OF 31 CAPLUS COPYRIGHT 2002 ACS
TI Continuous manufacture of organic **isocyanates**

=> save temp l21 isocyanhits/a
ANSWER SET L21 HAS BEEN SAVED AS 'ISOCYANHITS/A'

=> d l21 21,23,27,29,30,31 ti fbib abs

L21 ANSWER 21 OF 31 CAPLUS COPYRIGHT 2002 ACS

TI **Isocyanate** compositions

AN 1979:55488 CAPLUS

DN 90:55488

TI **Isocyanate** compositions

IN Kozlowski, Kazimierz; Szczepkowski, Leonard; Papinski, Jozef; Hernacki, Stanislaw; Szulc, Ewa; Jaglowska, Jadwiga

PA Akademia Techniczno-Rolnicza, Bydgoszcz, Pol.

SO Pol., 2 pp.

CODEN: POXXA7

DT Patent

LA Polish

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	PL 87064	P	19760630	PL 1974-168589	19740204
AB	Liq. isocyanate compns. were prepd. by phosgenation of mixts. of 4,4'-diaminodiphenyl sulfone (I) [80-08-0] or its hydrochloride (1-100 wt.%) with diaminodiphenylmethane [101-77-9] or polymethylenepolyphenylenepolyamine (II) or their hydrochlorides in org. solvent, and removal of COCl ₂ by desorption and removal of the solvent by distn. Thus, to a reactor contg. o-C ₆ H ₄ Cl ₂ was added simultaneously and a I-II mixt. (30:70, resp.). The temp. in the reactor was 90.degree. and the temp. of the I-II mixt. was 50.degree.. Upon completion of the addn. of the mixt. the contents of the reactor were kept at 165.degree. for 2.5 h while addnl. COCl ₂ was added. Desorption of COCl ₂ by passing a stream of N and distn. of o-C ₆ H ₄ Cl ₂ under diminished pressure gave a compn. [68880-54-6] of NCO group content 30.1%, Cl content 0.31% and viscosity 520 cP (at 25.degree.).				
COC12					

L21 ANSWER 23 OF 31 CAPLUS COPYRIGHT 2002 ACS

TI Heats of the phosgenation of aniline, 2,4-tolylenediamine, and 4,4'-diphenylmethanediamine

AN 1976:16584 CAPLUS

DN 84:16584

TI Heats of the phosgenation of aniline, 2,4-tolylenediamine, and 4,4'-diphenylmethanediamine

AU Konstantinov, I. I.; Selivanov, V. D.; Melent'eva, T. I.

CS USSR

SO Zh. Prikl. Khim. (Leningrad) (1975), 48(9), 2099-100

CODEN: ZPKHAB

DT Journal

LA Russian

AB **Isocyanate** formation from the title amines and COCl₂ is exothermic; the heats of reaction are calcd.

L21 ANSWER 27 OF 31 CAPLUS COPYRIGHT 2002 ACS

TI Continuous production of organic **isocyanates**

AN 1974:570204 CAPLUS

DN 81:170204

TI Continuous production of organic **isocyanates**

IN Artem'ev, A. A.; Strepikheev, Yu. A.; Shmidt, Ya. A.; Babkin, B. M.

PA State Scientific Research Institute of the Nitrogen Industry

SO Ger., 6 pp.

CODEN: GWXXAW

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	DE 1768439	A	19711118	DE 1967-1768439	19680514
	DE 1768439	B2	19740425		
	DE 1768439	C3	19750102		

AB Carbamyl chloride formation and polymn. in the title process are prevented

by adding a 2.5-5.5 fold excess of phosgene [75-44-5] heated above its crit. temp. (i.e. to 185-235.deg.) to a soln. or suspension of amine at 165-225.deg., followed by reaction at 180-250.deg./20-150 atm. Thus, a soln. of 205 g hexamethylenediamine [124-09-4] in 2000 ml PhCl is heated to 216-19.deg. and passed over 1 hr into a pipe reactor heated to 233-5.deg./60-2 atm together with 1680 g COCl₂ preheated to 220-4.deg. to give 89% hexamethylene diisocyanate [822-06-0].

L21 ANSWER 29 OF 31 CAPLUS COPYRIGHT 2002 ACS

TI Organic **isocyanates**

AN 1973:442141 CAPLUS

DN 79:42141

TI Organic **isocyanates**

IN Gee, Herbert Leonard

PA Quimco G.m.b.H.

SO Ger. Offen., 20 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	DE 2252068	A1	19730510	DE 1972-2252068	19721024
				GB 1971-49458	19711025
	BE 790461	A1	19730215	BE 1972-123405	19721023
				GB 1971-49458	19711025
	FR 2158909	A5	19730615	FR 1972-37432	19721023
				GB 1971-49458	19711025
	ES 407916	A1	19751101	ES 1972-407916	19721024
				GB 1971-49458	19711025
	JP 48049721	A2	19730713	JP 1972-107032	19721025
				GB 1971-49458	19711025

AB **Isocyanates** were prepd. by heating an amine with COCl₂ at 148-50.degree./3 atm in the presence of an excess of **isocyanate**. Thus, 1 kg PhNH₂ was added to 10 kg PhNCO contg. COCl₂ and HCl at 80.degree./3 atm; 8 kg recovered HCl-contg. COCl₂ soln. was added and the mixt. was heated to 148-50.degree. to give, after 1 hr, 96% PhNCO.

L21 ANSWER 30 OF 31 CAPLUS COPYRIGHT 2002 ACS

TI **Isocyanates**

AN 1973:431672 CAPLUS

DN 79:31672

TI **Isocyanates**

IN Edmondsen, John Neville; Hulse, Rae; Kerrigan, Vincent

PA Imperial Chemical Industries Ltd.

SO Ger. Offen., 17 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	DE 2249459	A1	19730419	DE 1972-2249459	19721009
				GB 1971-47795	19711014
	IT 967968	A	19740311	IT 1972-29815	19720928
				GB 1971-47795	19711014
	NL 7213291	A	19730417	NL 1972-13291	19721002
				GB 1971-47795	19711014
	BE 789809	A1	19730406	BE 1972-122871	19721006
				GB 1971-47795	19711014
	FR 2157485	A5	19730601	FR 1972-36382	19721013
				GB 1971-47795	19711014
	JP 48048419	A2	19730709	JP 1972-103161	19721014
				GB 1971-47795	19711014

AB **Isocyanates** were prepd. by treating a mixt. of (2) amines with COCl₂. Thus, a mixt. of cyclohexylamine and a polyphenylamine, prepd. by reacting HCHO and PhNH₂, was treated with COCl₂ to give cyclohexyl **isocyanate** and polyphenyl polyisocyanate; a mixt. of n-C₈H₁₇NH₂ and n-C₁₈H₃₇NH₂ gave n-C₈H₁₇NCO and n-C₁₈H₃₇NCO.

L21 ANSWER 31 OF 31 CAPLUS COPYRIGHT 2002 ACS

TI Continuous manufacture of organic **isocyanates**

AN 1973:3936 CAPLUS

DN 78:3936

TI Continuous manufacture of organic **isocyanates**

IN Horn, Peter; Schuster, Ludwig

PA Badische Anilin- und Soda-Fabrik A.-G.

SO Ger. Offen., 14 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2112181	A	19721005	DE 1971-2112181	19710313
	FR 2129554	A5	19721027	FR 1972-8236	19720309
				DE 1971-2112181	19710313
	BE 780513	A1	19720911	BE 1972-114942	19720310
				DE 1971-2112181	19710313

AB MeC₆H₃(NCO)₂-2,4 (I), (p-OCNC₆H₄)₂CH₂, and mixts. of 4,4'-, 4,2'-, and 2,2'-diisocyanatodiphenylmethanes with polyphenylpolymethylene polyisocyanates were continuously prepd. by reaction of liq. polyamines with COCl₂ gas at 115 in packed columns with recycling of unreacted

COCl₂

and parts of the liq. reaction mixt. Thus, COCl₂ 37,000, N 6000, and 8% MeC₆H₃(NH₂)₂-2,4 in C₆H₅Cl 1040 ml/hr were passed at 115 through a ball-filled column and the product sepd. into a gaseous and a liq.

product

flow; 185,000 ml of the latter and 5000 ml of N-contg. COCl₂ were recycled. The separator yielded 1040 ml of reaction product/hr, which,

on

removal of C₆H₅Cl by distn., gave 92% I.

=> d 121 10-20 ti

L21 ANSWER 10 OF 31 CAPLUS COPYRIGHT 2002 ACS

TI Performance-oriented packaging standards; changes to classification, hazard communication, packaging and handling requirements based on UN standards and agency initiative

L21 ANSWER 11 OF 31 CAPLUS COPYRIGHT 2002 ACS
 TI Methylene-bridged polyarylamine and its preparation

L21 ANSWER 12 OF 31 CAPLUS COPYRIGHT 2002 ACS
 TI Alkenylated diphenyl diisocyanates for use in preparing polyurethane-urea systems

L21 ANSWER 13 OF 31 CAPLUS COPYRIGHT 2002 ACS
 TI Bis(trichloromethyl) carbonate as an alternative reagent for phosgene

L21 ANSWER 14 OF 31 CAPLUS COPYRIGHT 2002 ACS
 TI Residue-free phosgenation of aromatic amines

L21 ANSWER 15 OF 31 CAPLUS COPYRIGHT 2002 ACS
 TI Continuous production of organic mono- and/or polyisocyanates

L21 ANSWER 16 OF 31 CAPLUS COPYRIGHT 2002 ACS
 TI Two-step continuous manufacture of aromatic **isocyanates**

L21 ANSWER 17 OF 31 CAPLUS COPYRIGHT 2002 ACS
 TI Continuous preparation of organic **isocyanates**

L21 ANSWER 18 OF 31 CAPLUS COPYRIGHT 2002 ACS
 TI Organic **isocyanates**

L21 ANSWER 19 OF 31 CAPLUS COPYRIGHT 2002 ACS
 TI Isocyanuric acid esters

L21 ANSWER 20 OF 31 CAPLUS COPYRIGHT 2002 ACS
 TI Organic **isocyanates** by phosgenation

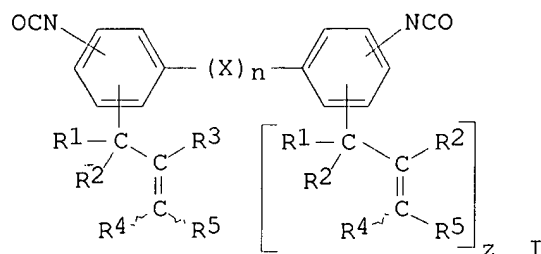
=> d 121 12,14,15-18,20 ti fbib abs

L21 ANSWER 12 OF 31 CAPLUS COPYRIGHT 2002 ACS
 TI Alkenylated diphenyl diisocyanates for use in preparing polyurethane-urea systems

AN 1989:615069 CAPLUS
 DN 111:215069
 TI Alkenylated diphenyl diisocyanates for use in preparing polyurethane-urea systems

IN Burgoyne, William Franklin, Jr.; Dixon, Dale David
 PA Air Products and Chemicals, Inc., USA
 SO Eur. Pat. Appl., 9 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 311901	A2	19890419	EP 1988-116545	19881006
	EP 311901	A3	19900829		
	R: DE, FR, GB				
	US 4845283	A	19890704	US 1987-108408	19871014
	JP 01139618	A2	19890601	US 1987-108408	19871014
				JP 1988-259266	19881014
				US 1987-108408	19871014
OS	MARPAT 111:215069				
GI					



AB The title compds. I (R1-5 = H, C1-3 alkyl, Ph, halo, alkoxy; R2R4, R2R5 = C2-5 alkylene; X = CH2, alkylene, O, S, etc.; n = 0-1; Z = 0-1), having .gtoreq.1 alkenyl group ortho to an **isocyanate** group, are prepd. for use in polyurethane-urea systems contg. pendant crosslinkable unsatd. groups. Heating 1.64 mol 4,4'-methylenedianiline with 1.23 mol dicyclopentadiene in 2.78 mol pentane in the presence of 20 g zeolite (13:87 Al2O3-SiO2) at 205.degree. for 22 h gave 2-(2-cyclopenten-1-yl)-4,4'-methylenedianiline which was phosgenated in dioxane at 57.degree.

and

heated at 85.degree. to give 2-(2-cyclopenten-1-yl)-4,4'-diisocyanatodiphenylmethane (II). II and HO(CH2CH2O)3H were copolymd. to give a polyurethane which was cured in the presence of Co naphthenate.

L21 ANSWER 14 OF 31 CAPLUS COPYRIGHT 2002 ACS

TI Residue-free phosgenation of aromatic amines

AN 1986:207865 CAPLUS

DN 104:207865

TI Residue-free phosgenation of aromatic amines

IN Pohl, Siegmund; Guettes, Bernd; Romanowski, Helmut; Grossmann, Hans Juergen; Scharr, Volker; Hendel, Harald; Hendreich, Regina; Gassan, Michael; Marquardt, Renate; et al.

PA VEB Synthesewerk Schwarzheide, Ger. Dem. Rep.

SO Ger. (East), 3 pp.

CODEN: GEXXA8

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DD 227698	A1	19850925	DD 1984-268213	19841010
	DD 227698	B1	19870819		

AB In the title process, a mixt. of arom. amines (viscosity <450 mPa-s) contg. <4.0% biquinoline or derivs. and <40 ppm Cl [primarily as NaCl or FeCl3 complexes of 4,4'-methylenedianiline (I)] is phosgenated. Thus, a I-polyamine mixt. (viscosity 315 mPa-s at 70.degree.) contg. 2.2% biquinoline and 16 ppm Cl was phosgenated in PhCl to give an MDI-polyisocyanate mixt. contg. 0.45% hydrolyzable Cl and 0.06% acidity (viscosity 180 mPa-s at 25.degree.) and leaving essentially no residue on distn.

L21 ANSWER 15 OF 31 CAPLUS COPYRIGHT 2002 ACS

TI Continuous production of organic mono- and/or polyisocyanates

AN 1986:19945 CAPLUS

DN 104:19945

TI Continuous production of organic mono- and/or polyisocyanates

IN Ohlinger, Rainer; Schnez, Harald; Pfannenstiel, Ludwig; Blumenberg, Bernd;

Raabe, Hans Joachim

PA BASF A.-G. , Fed. Rep. Ger.

SO Ger. Offen., 15 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 3403204	A1	19850814	DE 1984-3403204	19840131
	EP 150435	A2	19850807	EP 1984-115708	19841218
	EP 150435	A3	19850821		
	EP 150435	B1	19880302		
	R: BE, DE, FR, GB, IT, NL				
	US 4581174	A	19860408	DE 1984-3403204	19840131
				US 1985-695196	19850125
				DE 1984-3403204	19840131
	CA 1234825	A1	19880405	CA 1985-473192	19850130
				DE 1984-3403204	19840131

AB In the continuous prepn. of **isocyanates** by phosgenation of amines in org. solvents under pressure at high temps. with partial recirculation of the reaction mixt., salts and byproduct formation are prevented by keeping the HCl content of the mixt. before amine addn. at <0.5% and the mol ratio of COCl₂ to NH₂ groups at 12-200:1. Thus, a methylenedianiline-polymethylenepolyphenylenepolyamine mixt. was phosgenated in PhCl at 130.degree./14.5 bar using a 30% amine soln. added at 500 kg/h with COCl₂ addn. at 150 kg/h. The HCl content of the mixt. before amine addn. was 0.4%. The reaction mixt. contained PhCl 41.4, **isocyanates** 19.5, COCl₂ 38.6, and HCl 0.4%. The yield of **isocyanates** was 100%.

L21 ANSWER 16 OF 31 CAPLUS COPYRIGHT 2002 ACS

TI Two-step continuous manufacture of aromatic **isocyanates**

AN 1985:25208 CAPLUS

DN 102:25208

TI Two-step continuous manufacture of aromatic **isocyanates**

PA Mitsui Toatsu Chemicals, Inc., Japan

SO Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 59141552	A2	19840814	JP 1983-13758	19830201

AB **Isocyanates** are prepd. by dispersing amines in inert org. solvents, treating the amines and amine-HCl salts with phosgene at 60-100.degree. and 3-10 kg/cm² (gage) in the 1st step, transferring the reaction mixt. to a 2nd reactor at 120-170.degree. and 3-10 kg/cm² (gage) to complete the reaction of the amine-HCl salts and the decompn. of carbamoyl chlorides, and recycling some of the waste gas to the 1st reactor. Thus, phosgene contg. 5% HCl 42.2, o-C₆H₄Cl₂ contg. 25% tolylenediamine [25376-45-8] 44, and o-C₆H₄Cl₂ 29.7 kg/h were fed to a reactor at 90.degree., allowed to react at retention liq. amt.

.apprx.49.5

kg and retention time 0.6 h, overflowed to a heater at 150.degree., allowed to react in the 2nd reactor at retention liq. amt. .apprx.81 kg

and retention time 1 h, discharged at 75 kg/h, and distd. to give a 19.6% TDI [26471-62-5].

L21 ANSWER 17 OF 31 CAPLUS COPYRIGHT 2002 ACS
TI Continuous preparation of organic **isocyanates**
AN 1983:90072 CAPLUS
DN 98:90072
TI Continuous preparation of organic **isocyanates**
IN Yamamoto, Ryuichi; Takagi, Akinobu; Kataita, Masafumi; Obata, Kenji;
Mori,

Shigeki
PA Mitsui Toatsu Chemicals, Inc. , Japan
SO Fr. Demande, 36 pp.
CODEN: FRXXBL

DT Patent
LA French

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2503146	A1	19821008	FR 1982-6087	19820407
	FR 2503146	B1	19851227		
				JP 1981-51216	19810407
				JP 1981-183734	19811118
	JP 57165358	A2	19821012	JP 1981-51216	19810407
	JP 01024783	B4	19890515		
	JP 59122451	A2	19840714	JP 1981-183734	19811118
	JP 61026987	B4	19860623		
	IN 156928	A	19851207	IN 1982-CA336	19820325
				JP 1981-51216	19810407
	US 4422976	A	19831227	US 1982-364894	19820402
				JP 1981-51216	19810407
				JP 1981-183734	19811118
	DE 3212510	A1	19821111	DE 1982-3212510	19820403
	DE 3212510	C2	19870723		
	DE 3212510	C3	19900308		
				JP 1981-51216	19810407
				JP 1981-183734	19811118
	BR 8201971	A	19830308	BR 1982-1971	19820406
				JP 1981-51216	19810407
				JP 1981-183734	19811118
	GB 2097789	A	19821110	GB 1982-10299	19820407
	GB 2097789	B2	19850327		
				JP 1981-51216	19810407
				JP 1981-183734	19811118

AB In the title process, dispersed amines are condensed with COCl₂ [75-44-5] at 60-100.degree./ltoreq.9.8 bar for times sufficient to convert all amine hydrochlorides to carbamoyl chlorides and decomp. the latter. Thus, COCl₂ 24.3, a 17% o-C₆H₄Cl₂ soln. of m-toluenediamine [95-80-7] 44, and a recycle stream (5% carbamyl chloride, 5% TDI [26471-62-5], and excess COCl₂ in o-C₆H₄Cl₂) 8200 Kg/h were mixed in a reactor with residence time 1.4 h at 80.degree./4.9 bar and fed to a 2nd reactor (residence time 1.5 h) at 150.degree./4.9 bar with 6 kg COCl₂/h to give a soln. contg. 10.5% TDI and 0.5% nonvolatile residue, compared with 9.8 and 1.1, resp., when the 1st reactor was at 140.degree./0.8 bar.

L21 ANSWER 18 OF 31 CAPLUS COPYRIGHT 2002 ACS
TI Organic **isocyanates**
AN 1982:424350 CAPLUS

DN 97:24350
 TI Organic **isocyanates**
 PA Mitsui Toatsu Chemicals, Inc., Japan
 SO Jpn. Kokai Tokkyo Koho, 5 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 57048954	A2	19820320	JP 1980-124708	19800910
AB	During the continuous manuf. of org. isocyanates , org. primary amines are fed to a circulating line contg. solns. of COCl ₂ and isocyanate immediately ahead of a static or propeller line mixer and passed through the line mixer in <1 s. Thus, 46 kg/h 15% soln. of tolylenediamine [25376-45-8] in o-Cl ₂ C ₆ H ₄ and 8200 kg/h soln. of 15% TDI [26471-62-5] and excess COCl ₂ were passed through a static line mixer in .apprx.0.2 s and transferred to a storage tank at 140.degree. to discharge HCl and recover the solvent and COCl ₂ . A part of the reaction liq. was recovered as a product continuously and the major part was returned to the mixer reactor, and the rest was mixed with 11 kg/h solvent and 22.3 kg/h COCl ₂ (100% excess). The product was heated 30 min at 160.degree. and distd. to give a compn. of 16.1% TDI and 1.05% nonvolatile residues.				

L21 ANSWER 20 OF 31 CAPLUS COPYRIGHT 2002 ACS
 TI Organic **isocyanates** by phosgenation
 AN 1979:524379 CAPLUS
 DN 91:124379
 TI Organic **isocyanates** by phosgenation
 IN Yamamoto, Ryuichi; Yamamoto, Kosuke; Nagata, Teruyuki; Obata, Kenji
 PA Mitsui Toatsu Chemicals, Inc., Japan
 SO Jpn. Kokai Tokkyo Koho, 6 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 54070220	A2	19790605	JP 1977-134692	19771111
	JP 57015827	B4	19820401		
	US 4193932	A	19800318	US 1978-955266	19781027
				JP 1977-134692	19771111
	DE 2847243	A1	19790517	DE 1978-2847243	19781031
	DE 2847243	C2	19830120		
				JP 1977-134692	19771111
	RO 77280	P	19810817	RO 1978-95634	19781110
				JP 1977-134692	19771111
	HU 21667	O	19820128	HU 1978-MI641	19781110
	HU 179251	B	19820928		
				JP 1977-134692	19771111

PATENT FAMILY INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FAN	1979:440090				
PI	DE 2847243	A1	19790517	DE 1978-2847243	19781031
	DE 2847243	C2	19830120		
				JP 1977-134692	19771111

JP 54070220 A2 19790605 JP 1977-134692 19771111
 JP 57015827 B4 19820401

AB After phosgenation of diaminodiphenylmethane or tolylenediamine in an inert solvent, the mixt. is degassed with gaseous HCl instead of N to prevent discoloration and reduce hydrolyzable chlorides. Thus, PhNH2-H2CO-HCl condensate contg. 55% diaminodiphenylmethane was dild. with o-Cl2C6H4 to 7% concn., treated with COCl2 [75-44-5] at 20-150.degree., and degassed with 300 mL/min HCl at 170.degree. for 2 h. Evapn. gave a polyisocyanate compn. contg. 31.0% NCO and 0.161% hydrolyzable chlorides, vs. 30.8 and 0.180%, resp., with N instead of HCl.

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	50.06	140.91

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-8.05	-8.05

SESSION WILL BE HELD FOR 60 MINUTES
 STN INTERNATIONAL SESSION SUSPENDED AT 11:04:23 ON 12 JUN 2002

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:sssptal623paz

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
 SESSION RESUMED IN FILE 'CAPLUS' AT 11:29:48 ON 12 JUN 2002
 FILE 'CAPLUS' ENTERED AT 11:29:48 ON 12 JUN 2002
 COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	50.06	140.91

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-8.05	-8.05

=> bromine content

38617 BROMINE
 132 BROMINES
 38698 BROMINE
 (BROMINE OR BROMINES)
 1192366 CONTENT
 281138 CONTENTS
 1360324 CONTENT
 (CONTENT OR CONTENTS)
 L22 345 BROMINE CONTENT
 (BROMINE (W) CONTENT)

=> d his

(FILE 'HOME' ENTERED AT 09:05:07 ON 12 JUN 2002)

FILE 'REGISTRY' ENTERED AT 09:05:21 ON 12 JUN 2002

E PHOSGENE/CN

L1 1 E3
E BROMINE/CN
L2 1 E3
L3 1 L2
E IODINE/CN
L4 1 E3

FILE 'CAPLUS' ENTERED AT 09:06:52 ON 12 JUN 2002

L5 5229 L1
L6 21643 L2
L7 36942 L4
L8 53283 L6 OR L7
L9 72 L5 AND L8
L10 60170 ISOCYANATE
L11 8 L9 AND L10
L12 102 L8 AND L10
L13 15 L8(L) L10
L14 358596 COLOR
L15 0 L13 AND L14
SAVE TEMP ALL LTISOCYANATE/L

FILE 'REGISTRY' ENTERED AT 10:45:52 ON 12 JUN 2002

E DIPHENYLMETHANEDIAMINE/CN

E DIAMINOPHENYLMETHANE/CN

L16 1 E3
L17 STRUCTURE UPLOADED
L18 11 SEARCH L17 EXACT FULL

FILE 'CAPLUS' ENTERED AT 10:51:59 ON 12 JUN 2002

L19 3948 L18
L20 45 L19 AND L5
L21 31 L10 AND L20
SAVE TEMP L21 ISOCYANHITS/A
L22 345 BROMINE CONTENT

=> l22 and l5

L23 0 L22 AND L5

=> halogen

92068 HALOGEN
17465 HALOGENS
L24 101538 HALOGEN
(HALOGEN OR HALOGENS)

=> ?isocyanate

L25 91755 ?ISOCYANATE

=> l24 and l25

L26 1276 L24 AND L25

=> l14 and l26

L27 45 L14 AND L26

=> d 127 35-45 ti

L27 ANSWER 35 OF 45 CAPLUS COPYRIGHT 2002 ACS
TI Heat-developable photosensitive material

L27 ANSWER 36 OF 45 CAPLUS COPYRIGHT 2002 ACS
TI Methine dyes and their use

L27 ANSWER 37 OF 45 CAPLUS COPYRIGHT 2002 ACS
TI Photopolymerizable mixture

L27 ANSWER 38 OF 45 CAPLUS COPYRIGHT 2002 ACS
TI Chemically joined phase separated thermoplastic graft copolymers

L27 ANSWER 39 OF 45 CAPLUS COPYRIGHT 2002 ACS
TI N-(o-Hydroxyphenyl)-N'-phenylureas for combating harmful microorganisms outside the textile industry

L27 ANSWER 40 OF 45 CAPLUS COPYRIGHT 2002 ACS
TI Halogenated polyester compositions

L27 ANSWER 41 OF 45 CAPLUS COPYRIGHT 2002 ACS
TI Diorgano phosphorylated polyols and flame-retardant polyurethane foams therefrom

L27 ANSWER 42 OF 45 CAPLUS COPYRIGHT 2002 ACS
TI Improving the **color** stability of expanded polyurethans

L27 ANSWER 43 OF 45 CAPLUS COPYRIGHT 2002 ACS
TI Organic isocyanates. III. Reaction of aromatic isocyanates with **halogens**

L27 ANSWER 44 OF 45 CAPLUS COPYRIGHT 2002 ACS
TI Remarks on the communication of R. Lesser, E. Kranepuhl and G. Gad on the constitution of naphthalene and its derivatives

L27 ANSWER 45 OF 45 CAPLUS COPYRIGHT 2002 ACS
TI Nitrones and nitrenes

=> 125(1)114

L28 1573 L25(L)L14

=> 128(10)124

MISSING OPERATOR 'L28(L0)L24'

The search profile that was entered contains terms or nested terms that are not separated by a logical operator.

=> 128(1)124

L29 17 L28(L)L24

=> d 129 1-17 ti

L29 ANSWER 1 OF 17 CAPLUS COPYRIGHT 2002 ACS
TI Production of black thermal copying sheet

L29 ANSWER 2 OF 17 CAPLUS COPYRIGHT 2002 ACS
TI Monohydric alcohol derived urethanes and their use in cosmetic

formulations

L29 ANSWER 3 OF 17 CAPLUS COPYRIGHT 2002 ACS
TI Biodegradable ink compositions contg. no halogen-organic solvents

L29 ANSWER 4 OF 17 CAPLUS COPYRIGHT 2002 ACS
TI colored positive-working photosensitive recording material

L29 ANSWER 5 OF 17 CAPLUS COPYRIGHT 2002 ACS
TI Thermal-transfer printing

L29 ANSWER 6 OF 17 CAPLUS COPYRIGHT 2002 ACS
TI Microencapsulated toners containing photocurable resins fixing agent

L29 ANSWER 7 OF 17 CAPLUS COPYRIGHT 2002 ACS
TI Electrochromic or photochromic resin composition

L29 ANSWER 8 OF 17 CAPLUS COPYRIGHT 2002 ACS
TI Cyan dye-releasing compounds for use in the production of
diffusion-transfer color images

L29 ANSWER 9 OF 17 CAPLUS COPYRIGHT 2002 ACS
TI Rigid polyurethane foam molding

L29 ANSWER 10 OF 17 CAPLUS COPYRIGHT 2002 ACS
TI Polyurethane foam moldings

L29 ANSWER 11 OF 17 CAPLUS COPYRIGHT 2002 ACS
TI Heat-developable photosensitive material

L29 ANSWER 12 OF 17 CAPLUS COPYRIGHT 2002 ACS
TI Photopolymerizable mixture

L29 ANSWER 13 OF 17 CAPLUS COPYRIGHT 2002 ACS
TI N-(o-Hydroxyphenyl)-N'-phenylureas for combating harmful microorganisms
outside the textile industry

L29 ANSWER 14 OF 17 CAPLUS COPYRIGHT 2002 ACS
TI Halogenated polyester compositions

L29 ANSWER 15 OF 17 CAPLUS COPYRIGHT 2002 ACS
TI Improving the color stability of expanded polyurethans

L29 ANSWER 16 OF 17 CAPLUS COPYRIGHT 2002 ACS
TI Remarks on the communication of R. Lesser, E. Kranepuhl and G. Gad on the
constitution of naphthalene and its derivatives

L29 ANSWER 17 OF 17 CAPLUS COPYRIGHT 2002 ACS
TI Nitrones and nitrenes

=> d 129 15 ti fbib abs

L29 ANSWER 15 OF 17 CAPLUS COPYRIGHT 2002 ACS
TI Improving the color stability of expanded polyurethans
AN 1967:46926 CAPLUS
DN 66:46926
TI Improving the color stability of expanded polyurethans
PA Imperial Chemical Industries Ltd.

SO Belg., 20 pp.
CODEN: BEXXAL
DT Patent
LA French
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	BE 671112		19660419	GB	19641020

AB Expanded polyurethans prepd. from an org. **polyisocyanate**, a polyester with OH groups, a foaming agent, an org. **halogen** compd., a tertiary ester of H3PO4, and a phenolic antioxidant had improved

color stability. Thus, a polyurethan foam that became brown after formation was prepd. from 100 parts poly(diethylene adipate) modified by pentaerythritol, 62 parts tolylene **diisocyanate** (65:35 mixt. of 2,4- and 2,6-isomers), 5 parts water, 1 part of the condensation product of ethylene oxide with octylphenol, 0.4 part of the ethylene oxide-ricinoleic acid condensate, 0.1 part Na polypropylene glycol sulfate, 0.65 part N,N-dimethyl cyclohexylamine, and 10 parts tris(.beta.-chloroethyl) phosphate. When 1 part triphenyl phosphite was added to the mixt., the foamed polyurethan produced showed only a slight **color** degradation. The addn. of 1 part (PhO)3P and 0.5 part 2-(2-methyl-cyclohexyl)-4,6-dimethylphenol improved the **color** stability slightly more. Similar improvements in **color** stability were obtained by adding diisodecylpentaerythrityl diphosphite and tert-butylcatechol, together or in appropriate combinations with the H3PO4 esters and phenolic compds. mentioned above.

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	70.76	161.61

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-8.67	-8.67

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 11:35:48 ON 12 JUN 2002

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:sssptal623paz

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 11:52:58 ON 12 JUN 2002
FILE 'CAPLUS' ENTERED AT 11:52:58 ON 12 JUN 2002
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COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	70.76	161.61

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
CA SUBSCRIBER PRICE	ENTRY	SESSION
	-8.67	-8.67

=> d his

(FILE 'HOME' ENTERED AT 09:05:07 ON 12 JUN 2002)

FILE 'REGISTRY' ENTERED AT 09:05:21 ON 12 JUN 2002

```

      E PHOSGENE/CN
L1      1 E3
      E BROMINE/CN
L2      1 E3
L3      1 L2
      E IODINE/CN
L4      1 E3

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FILE 'CAPLUS' ENTERED AT 09:06:52 ON 12 JUN 2002

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L5      5229 L1
L6      21643 L2
L7      36942 L4
L8      53283 L6 OR L7
L9      72 L5 AND L8
L10     60170 ISOCYANATE
L11     8 L9 AND L10
L12     102 L8 AND L10
L13     15 L8(L) L10
L14     358596 COLOR
L15     0 L13 AND L14
      SAVE TEMP ALL LTISOCYANATE/L

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FILE 'REGISTRY' ENTERED AT 10:45:52 ON 12 JUN 2002

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      E DIPHENYLMETHANEDIAMINE/CN
      E DIAMINOPHENYLMETHANE/CN
L16     1 E3
L17     STRUCTURE UPLOADED
L18     11 SEARCH L17 EXACT FULL

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FILE 'CAPLUS' ENTERED AT 10:51:59 ON 12 JUN 2002

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L19     3948 L18
L20     45 L19 AND L5
L21     31 L10 AND L20
      SAVE TEMP L21 ISOCYANHITS/A
L22     345 BROMINE CONTENT
L23     0 L22 AND L5
L24     101538 HALOGEN
L25     91755 ?ISOCYANATE
L26     1276 L24 AND L25
L27     45 L14 AND L26
L28     1573 L25(L) L14
L29     17 L28(L) L24

```

=> techical grade

```

      8 TECHICAL
      88695 GRADE
      20083 GRADES
      104445 GRADE
      (GRADE OR GRADES)

```

L30 0 TECHNICAL GRADE
 (TECHICAL(W)GRADE)

=> technical grade
 27520 TECHNICAL
 4 TECHNICALS
 27524 TECHNICAL
 (TECHNICAL OR TECHNICALS)
 74763 TECH
 95414 TECHNICAL
 (TECHNICAL OR TECH)
 88695 GRADE
 20083 GRADES
 104445 GRADE
 (GRADE OR GRADES)

L31 4387 TECHNICAL GRADE
 (TECHNICAL(W)GRADE)

=> 15 and 131

L32 1 L5 AND L31

=> d 132 ti

L32 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS
TI Basic impurities in technical thionyl chloride

=> d 132 ti fbib abs

L32 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS
TI Basic impurities in technical thionyl chloride
AN 1992:197045 CAPLUS
DN 116:197045
TI Basic impurities in technical thionyl chloride
AU Smirnov, V. I.; Milova, N. M.; Zhalyaleva, E. S.; Leont'eva, T. A.
CS USSR
SO Khim. Prom-st. (Moscow) (1992), (1), 15-16
CODEN: KPRMAW; ISSN: 0023-110X
DT Journal
LA Russian
AB Gas chromatog. and spectral anal. were used to det. the basic impurities in **tech. grade** SOCl₂ obtained by the reaction of COCl₂ with SO₂ on activated C at 150-250.degree.. The **tech. grade** SOCl₂ is treated with S for the conversion of SCl₂ into S₂Cl₂ and removal of the latter by fractionation at 137.degree., followed by blowing with dry N₂ and sepn. of SOCl₂ from the reaction mixt. by distn. The final product contained SOCl₂ 97.9, SO₂ 0.8, COCl₂ 0.7, SO₂Cl₂ 0.3, HCl 0.1, CCl₄ 0.05, S₂Cl₂ 0.05, SCl₂ 0.05, and Fe 0.0003%.

=> technical
 27520 TECHNICAL
 4 TECHNICALS
 27524 TECHNICAL
 (TECHNICAL OR TECHNICALS)
 74763 TECH
 95414 TECHNICAL
 (TECHNICAL OR TECH)

=> 15(1)133
L34 0 L5(L)L33

=> 15 and 133
L35 8 L5 AND L33

=> bromine
38617 BROMINE
132 BROMINES
L36 38698 BROMINE
(BROMINE OR BROMINES)

=> 135 and 136
L37 0 L35 AND L36

=> logoff hold
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
84.68	175.53

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-9.29	-9.29

CA SUBSCRIBER PRICE

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 11:55:39 ON 12 JUN 2002